

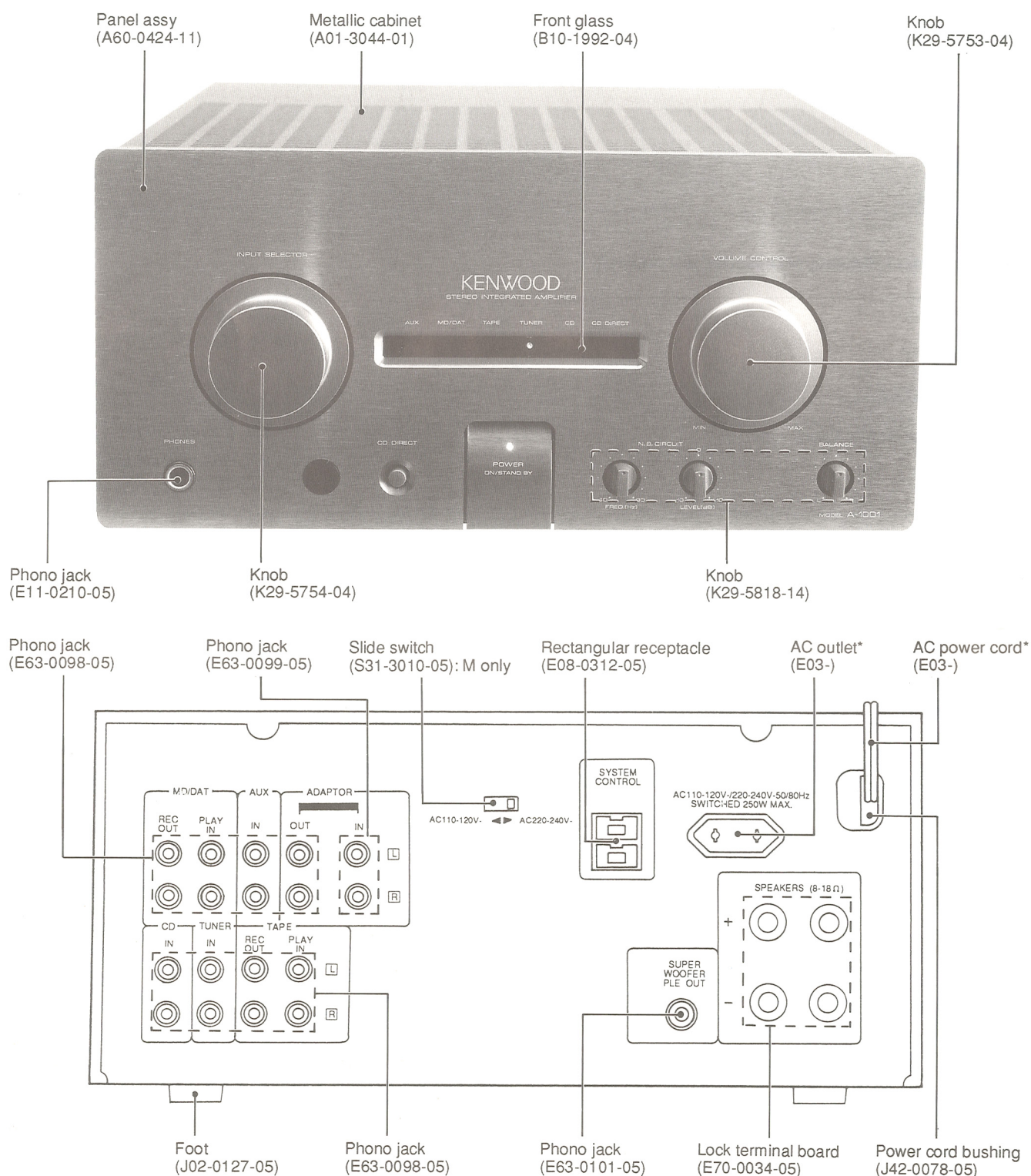
STEREO INTEGRATED AMPLIFIER

A-1001

SERVICE MANUAL

KENWOOD

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B51-4757-00 (S) 2335



* Refer to parts list on page 23.

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Accessories

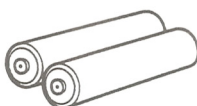
Check that the following accessories are present.

Remote control unit 1
(A70-0939-05)

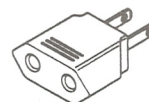


Battery cover (A09-0149-08)

Batteries (R6/AA) 2

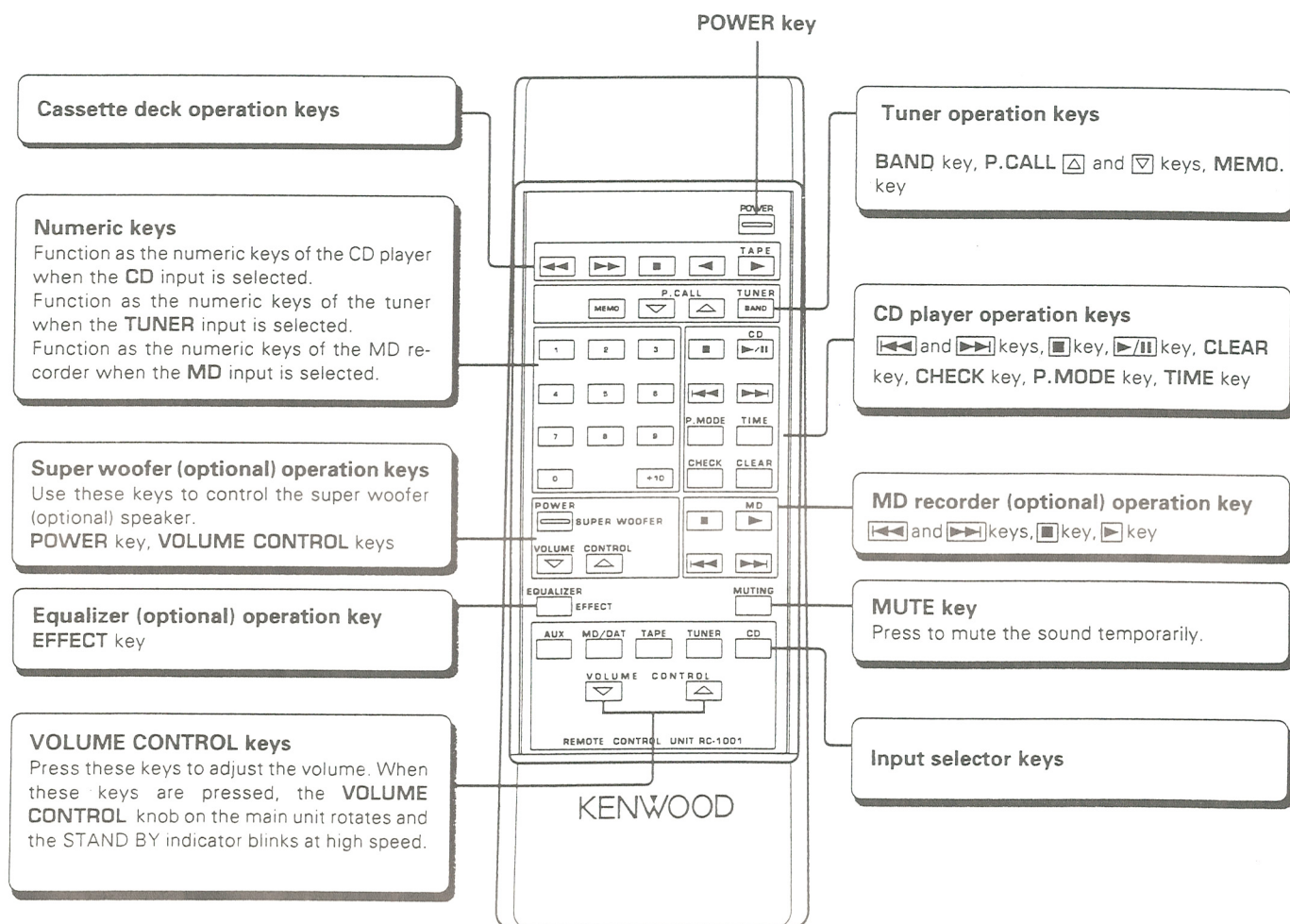


AC plug adaptor 1
(Except for some areas)
(E03-0115-05): M ONLY



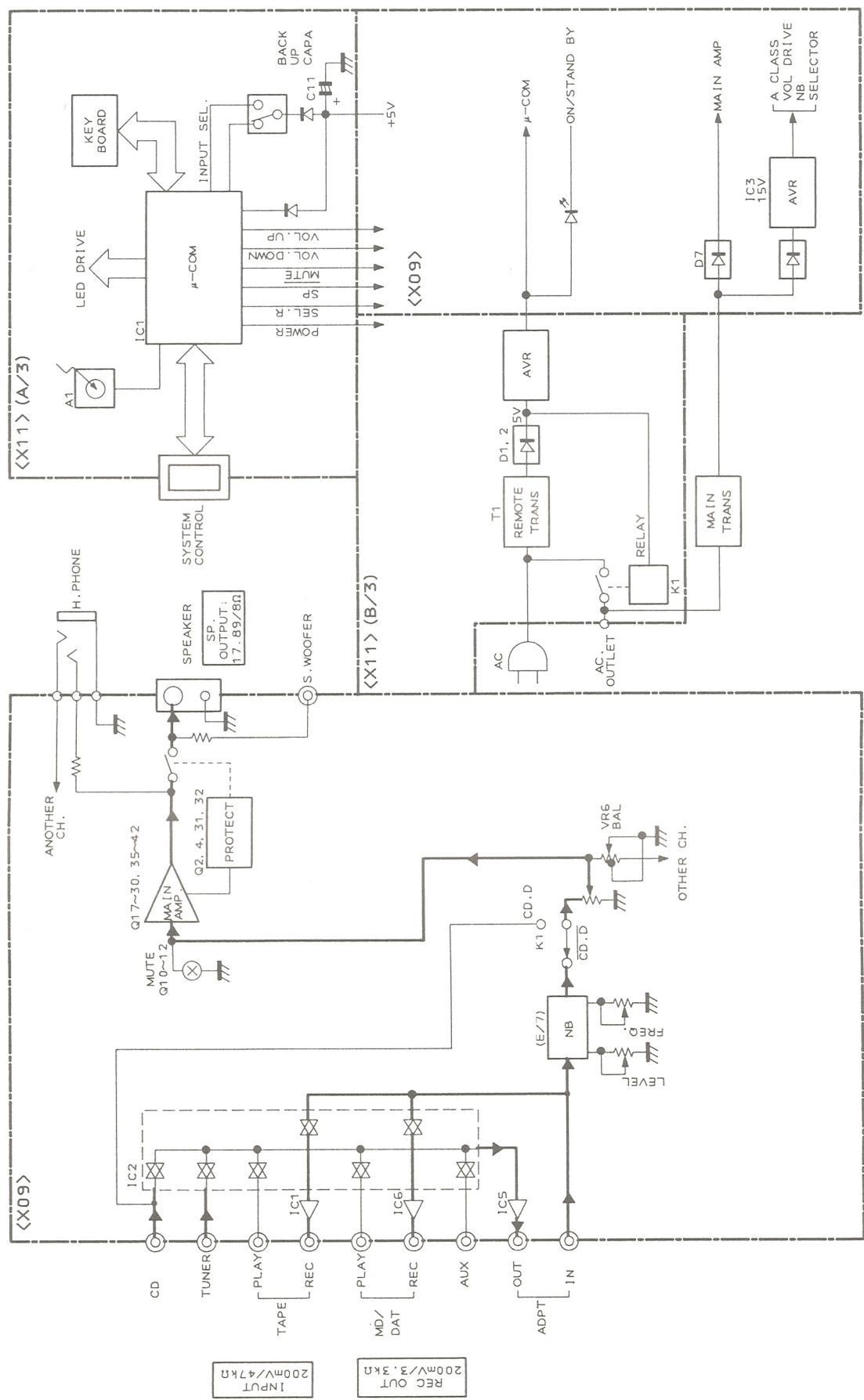
For the unit with a European AC
plug in areas other than Europe

REMOTE CONTROL OPERATION



Model: RC-1001
Infrared ray system

BLOCK DIAGRAM



CIRCUIT DESCRIPTION

AMP μ -COM: μ PD75004CU-199 (X11:IC1)

1. Initial Status

After the power is turned ON, the initial status will be as follows:

POSITION = TUNER
CD DIRECT = OFF
MUTE = OFF

MUTE = ON (Sound is muted)
MUTE = OFF (Sound is not muted)

The VOLUME LED will blink for four seconds after the power is turned ON, then it will stay lit.

2. Test Mode

2-1 Test Mode with the Main Unit Keys

(1) Setting Procedure

- While pressing the CD DIR key, connect the AC outlet.

(2) Cancellation

- Disconnect the AC outlet. The initial setting will take effect and the test mode will be canceled.

(3) Description

1. Auto POWER ON

- When the AC outlet is connected while the CD DIR key is held down, the POWER will turn ON and all function will be at the initial setting.

2. ALL LED ON Mode

- When the AC outlet is connected while the CD DIR key is held down, all the LEDs will light. Any key operation on the main unit thereafter will return the LEDs to normal.

3. Auto Motor VR UP/DOWN

- When the CD DIR key is pressed during the test mode set with the main unit keys, the motor VR will operate as follows:

16 sec. UP - 16 sec. DOWN - STOP

- During this motor operation, the CD DIR key will be ineffective.

4. MUTE Signal Output

- The MUTE signal will function normally.

2-2 Test Mode With Serial Communications

(1) Setting Procedure

- Connect the AC outlet and enter the TEST ON code.

TEST ON (C27F)

(2) Cancellation

- Enter the TEST OFF code or disconnect the AC outlet.

TEST OFF (C27E)

(3) Description

1. Other operations during the test mode (serial communications)

- During the test mode (serial communications), the main unit's keys, remote controller keys, and normal serial code will be ineffective.

2. Required operations for the test mode (serial communications)

- The serial code for the test mode (serial communications) can be used to check the operation of all circuits. Refer to the test mode serial code table.

- During the test mode (serial communications), the MUTE signal is not output. This is for reducing the input-output switching time during the measurement.

- When a valid serial code for the test mode is received, the code identical to the code entered will be output.

- The code entered during the test mode (serial communications) will become valid regardless of the display mode.

- For checking the MUTE operation, MUTE has specific codes.

MUTE ON (C20D)
MUTE ALL OFF (C20F)

To switch cyclically, enter the individual serial code.

Ex.: Enter the following two codes for SPEAKER ON/OFF.

SPEAKER ON (C21F)
SPEAKER OFF (C21E)

- Set the motor VR UP/DOWN.

- All LEDs will light. To cancel, enter the ALL LED ON cancellation code. The LEDs will then return to normal.

ALL LED ON OFF (C27B)

- All functions (including the test mode) will be initialized.

AMP INITIAL (C27D)

CIRCUIT DESCRIPTION

2-3 Initial Settings

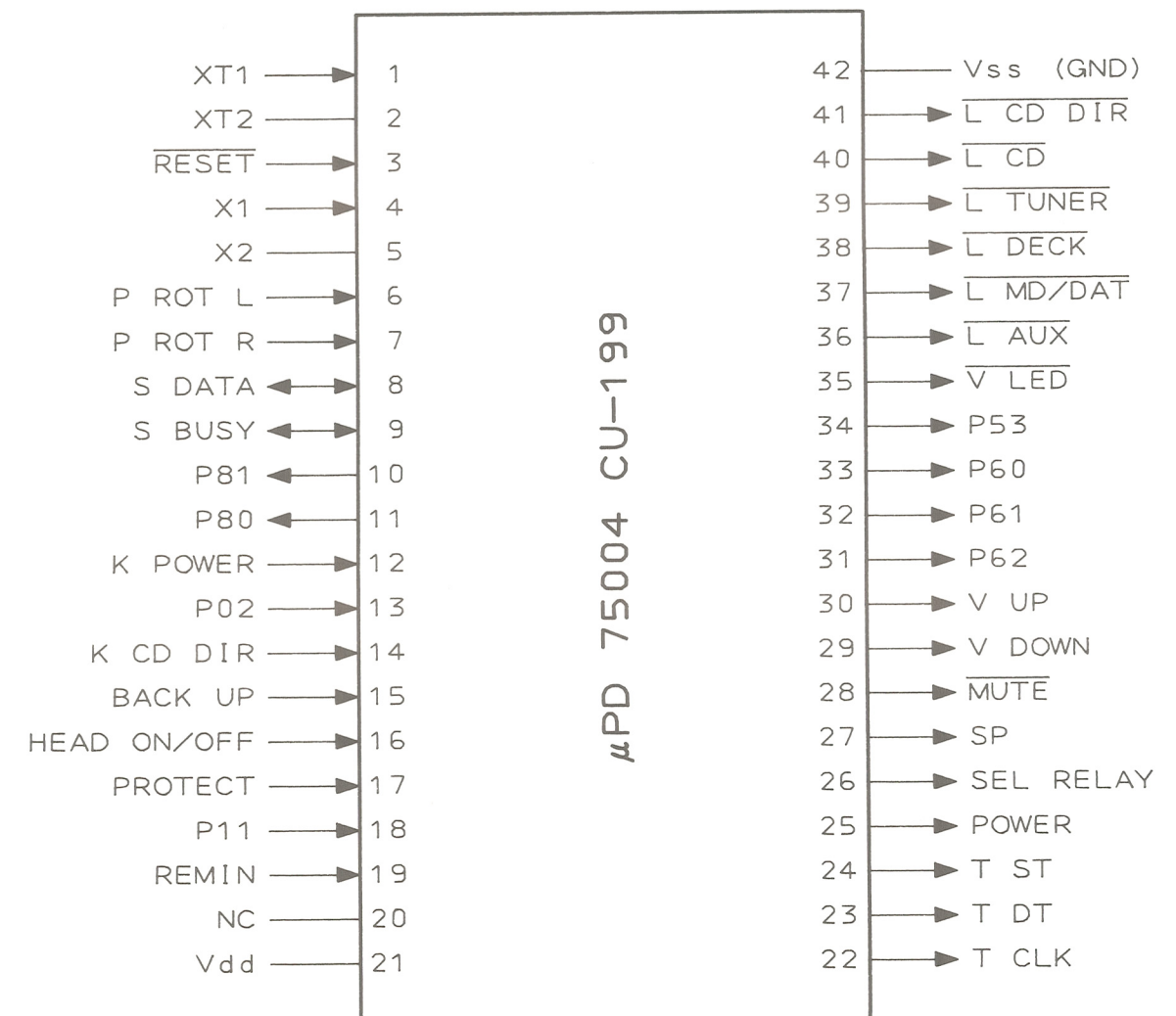
(1) Setting Procedure

- To set the initial settings, hold down the POWER key and connect the AC outlet.
- To initialize, disconnect the AC outlet during the test mode (set with the main unit keys or serial communications).

(2) Description

- All function (including test mode) will be initialized.

Pin Connection



Unused pin settings:

Open: XT2, P53 to P62, P80, P81
Vss Connected: XT1, P02, P11
Vdd Connected: NC

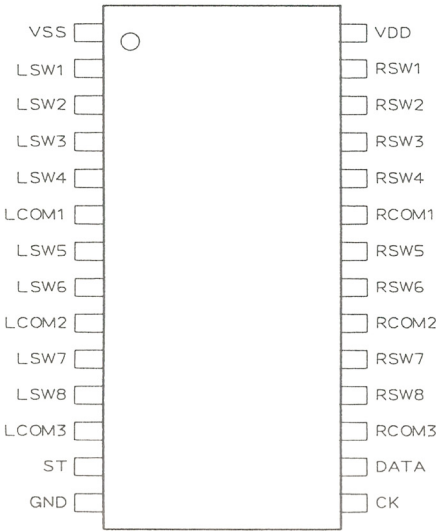
CIRCUIT DESCRIPTION

Pin Description

No.	Pin Name	Name	I/O	Description
1	XT1		I	GND
2	XT2			Open
3	RESET		I	Reset signal input port
4	X1		I	Oscillator
5	X2			Oscillator
6	P33	P ROT L	I	Rotary encoder L
7	P32	P ROT R	I	Rotary encoder R
8	P31	S DATA	I/O	Serial data
9	P30	S BUSY	I/O	Serial busy
10	P81	Not used	O	Open
11	P80	Not used	O	Open
12	P03	K POWER	I	Key power
13	P02	Not used	I	GND
14	P01	K CD DIR	I	Key CD direct
15	P00	BACK UP	I	Back up
16	P13	HEAD ON/OFF	I	Switch headphones on/off
17	P12	PROTECT	I	Protection detection
18	P11	Not used	I	GND
19	INTO	REMIN	I	Remote control input terminal
20	NC			+5V
21	VDD			+5V
22	P23	T CLK	O	Selector IC clock
23	P22	T DT	O	Data
24	P21	T ST	O	Strobe
25	P20	POWER	O	Power
26	P73	SEL RELAY	O	CD DIR control port
27	P72	SP	O	Speaker
28	P71	MUTE	O	Mute
29	P70	V DOWN	O	Volume down
30	P63	V UP	O	Volume up
31	P62	Not used	O	Open
32	P61	Not used	O	Open
33	P60	Not used	O	Open
34	P53	Not used	O	Open
35	P52	V LED	O	Volume LED
36	P51	L AUX	O	AUX LED
37	P50	L MD/DAT	O	MD/DAT LED
38	P43	L DECK	O	Deck LED
39	P42	L TUNER	O	Tuner LED
40	P41	L CD	O	CD LED
41	P40	L CD DIR	O	CD DIR LED
42	Vss	Vss		GND

CIRCUIT DESCRIPTION

SELECTOR IC: TC9164N(X09, IC2)



TP MD

Status \ SW	1	2	3	4	5	6	7	8
TAPE	1	0	0	0	0	0	0	1
TUNER	0	1	0	0	0	0	1	1
CD	0	0	1	0	0	0	1	1
AUX	0	0	0	1	0	0	1	1
MD/DAT	0	0	0	0	1	0	1	0

(0: SW OFF 1: SW ON)

	SEL RELAY Status
CD DIR ON	H
CD DIR OFF	L

CIRCUIT DESCRIPTION

A-1001

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ADJUSTMENT/REGLAGE/ABGLEICH

ADJUSTMENT

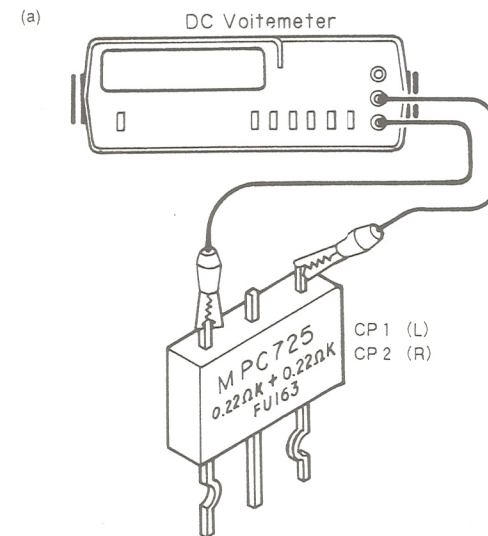
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified, the individual switches should be set as following: POWER: ON SPEAKER: B REC OUT: OFF SELECTOR: PHONO							
1	IDLE CURRENT	—	Connect a DC voltmeter between CP1 (L) CP2 (R). (X09)(A/7)	VOLUME: 0	VR1 (L) VR2 (R) (X09)(C/7)	15 mV	(a)

REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINT DE L'ALIGNEMENT	ALIGNER POUR	FIG.
A moins, de spécification contraire, régler les commutateurs respectifs comme suit: POWER: ON SPEAKER: B REC OUT: OFF SELECTEUR: PHONO							
1	COURANT DE PLARISATION	—	Connecter un voltmètre de CC sur CP1 (G) CP2 (D). (X09)(A/7)	VOLUME: 0	VR1 (G) VR2 (D) (X09)(C/7)	15 mV	(a)

ABGLEICH

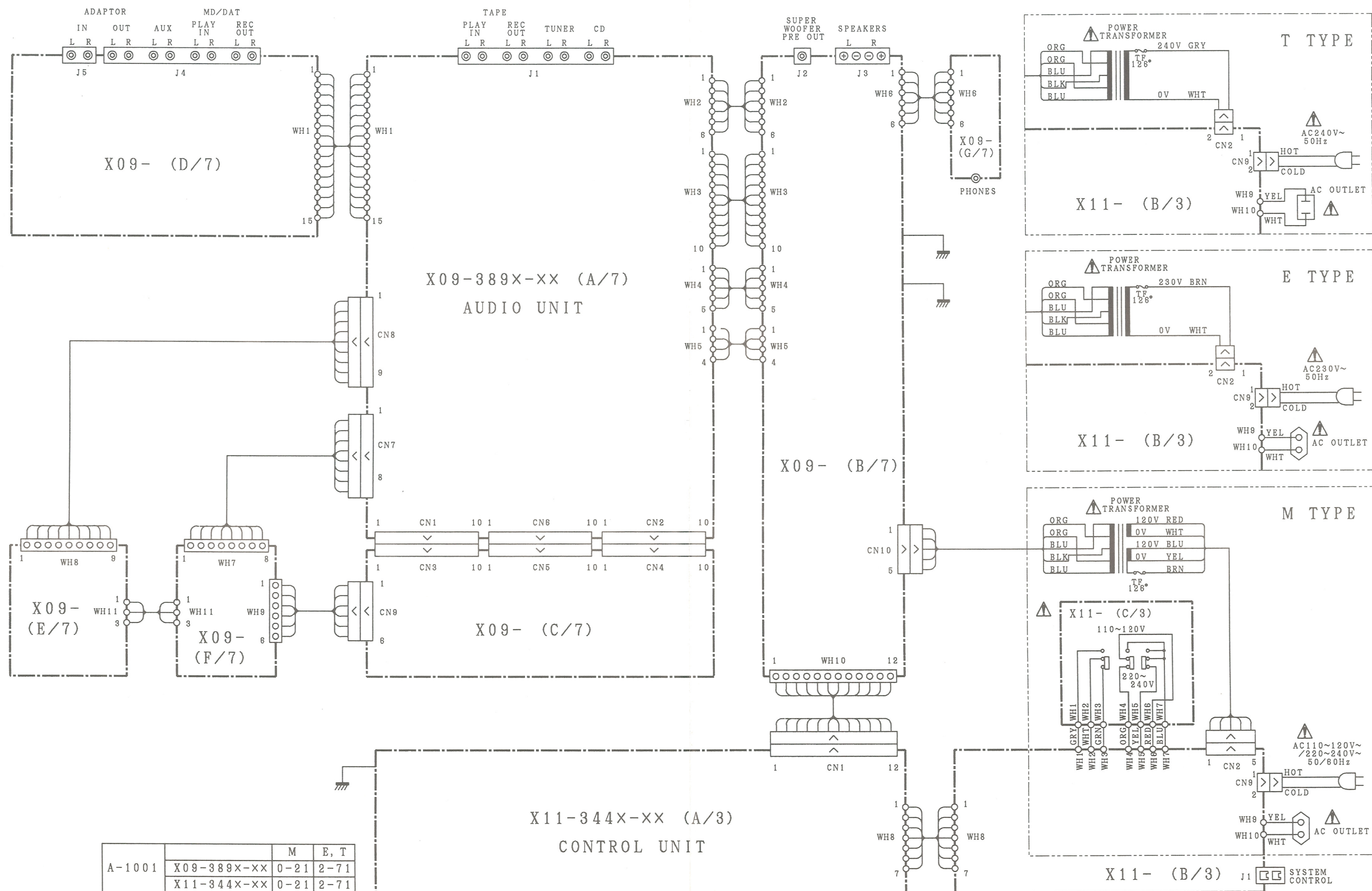
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	VERSTÄRKER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
Wenn nicht anders angegeben, die einzelnen Schalter wie folgt einstellen: POWER: ON SPEAKER: B REC OUT: OFF WÄHLER: PHONO							
1	LEERLAUFSTROM	—	Einen Gleichspannungsmesser über CP1 (L) CP2 (R) anschließen. (X09)(A/7)	VOLUME: 0	VR1 (L) VR2 (R) (X09)(C/7)	15 mV	(a)



□ : Transmission code ■ : Reception code

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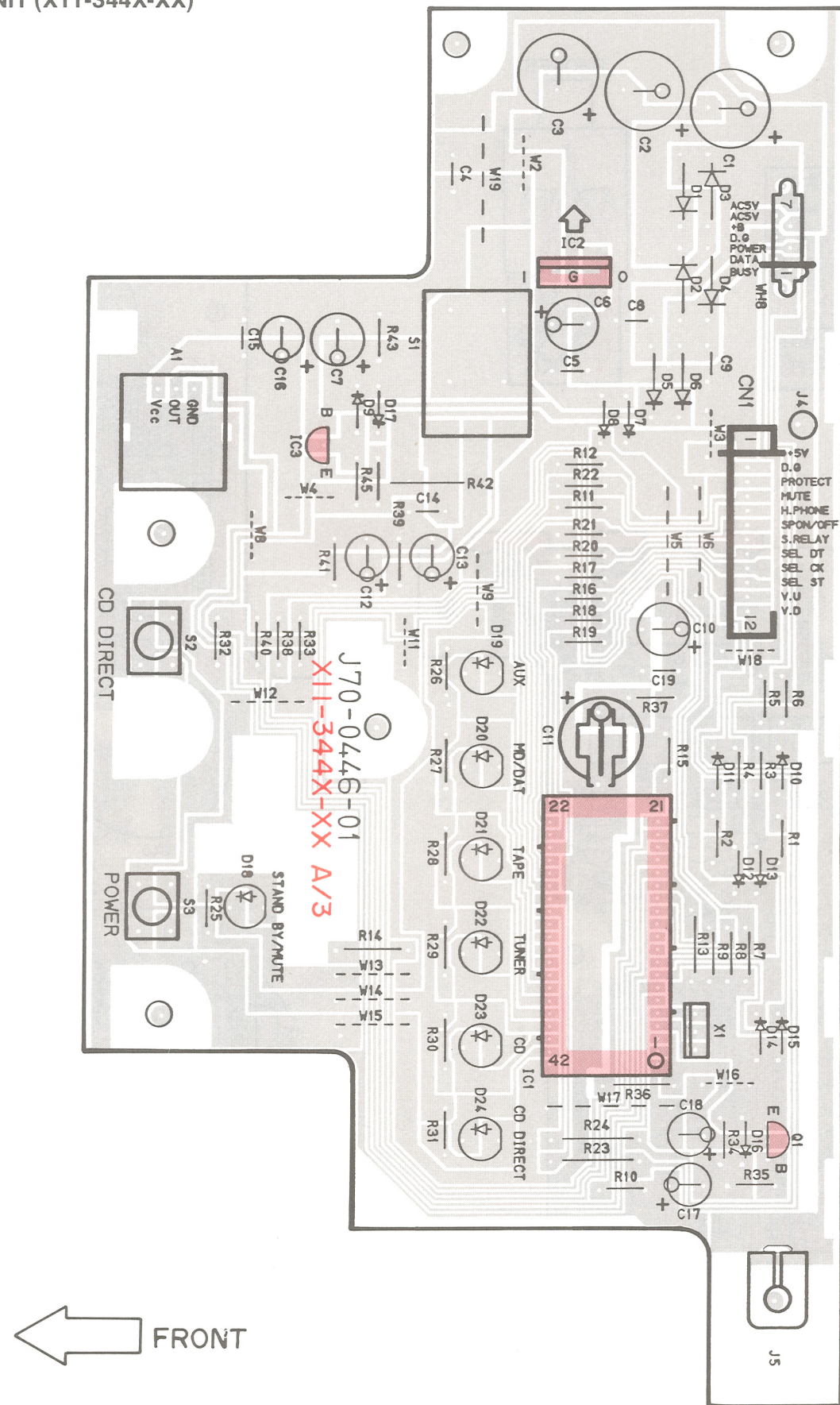
WIRING DIAGRAM



A-1001		M	E, T
	X09-389X-XX	0-21	2-71
	X11-344X-XX	0-21	2-71

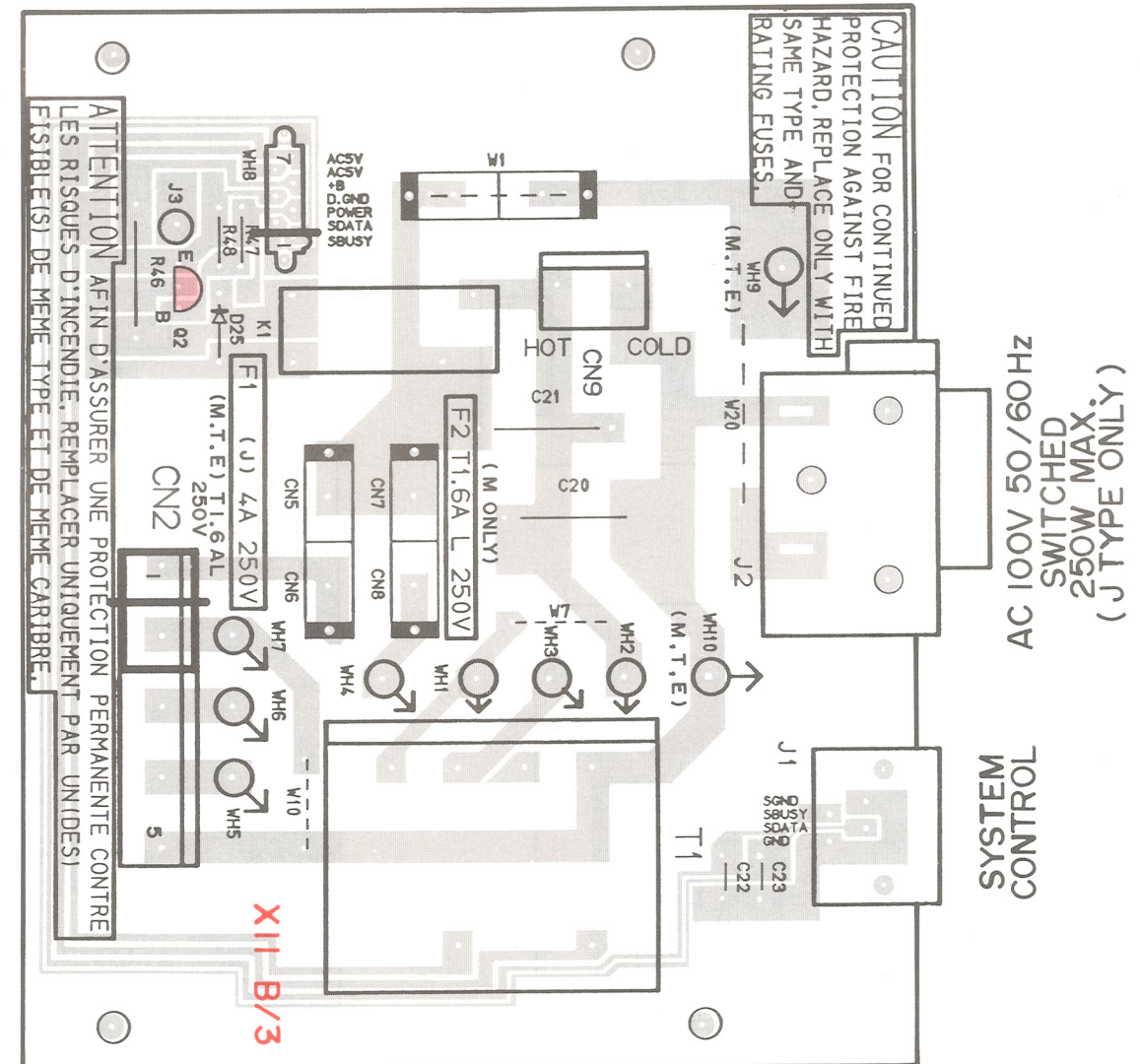
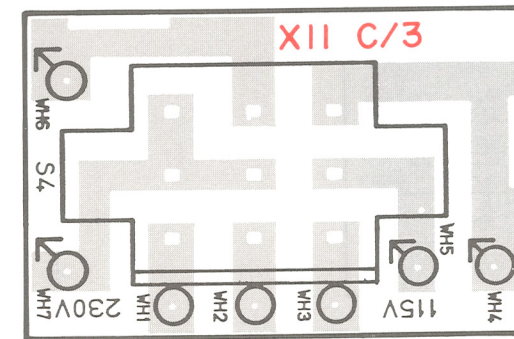
PC BOARD (Component side view)

CONTROL UNIT (X11-344X-XX)



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M TYPE ONLY

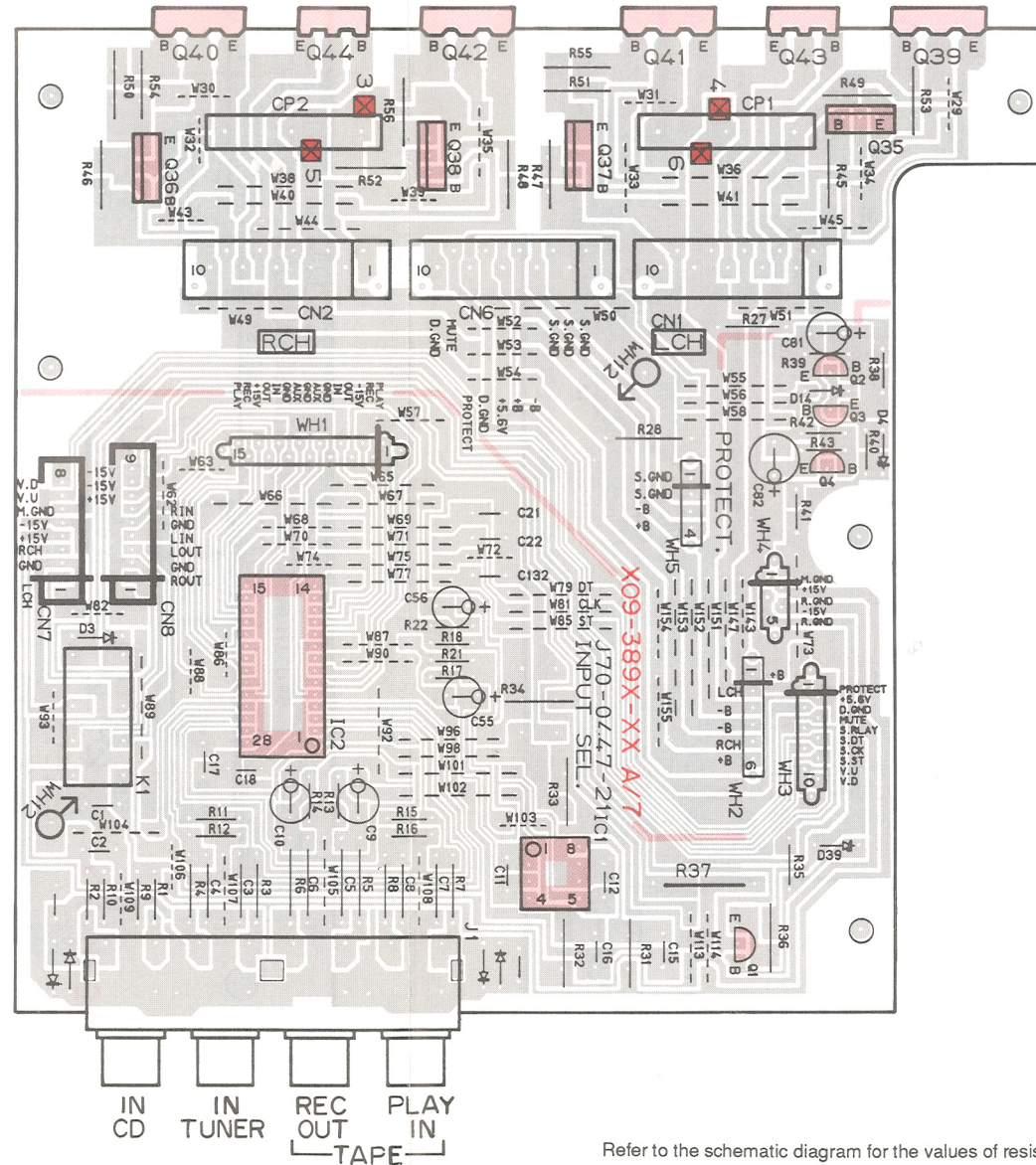
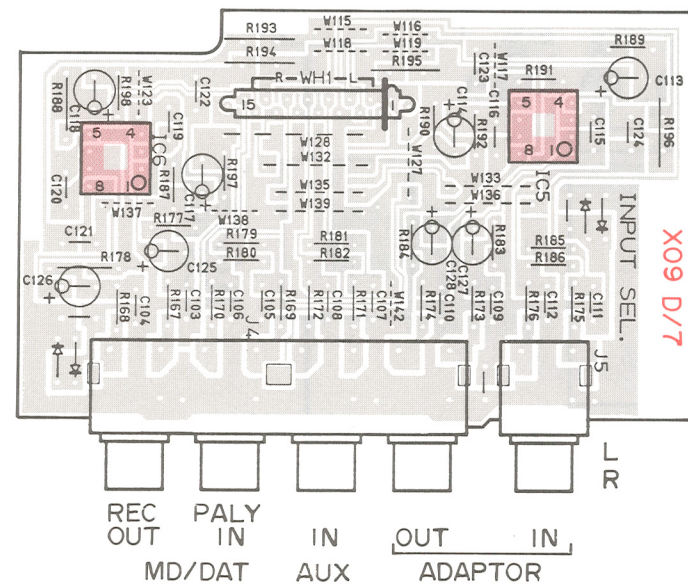
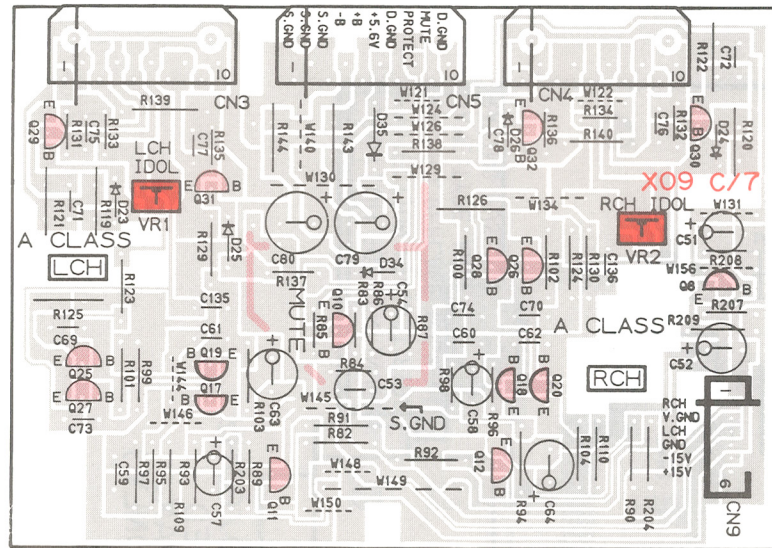
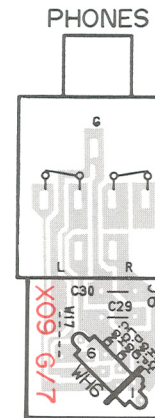
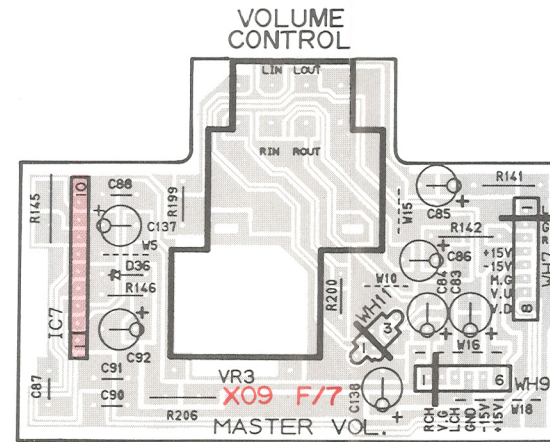
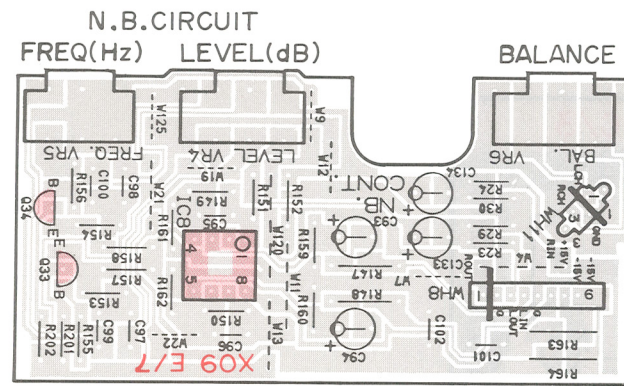


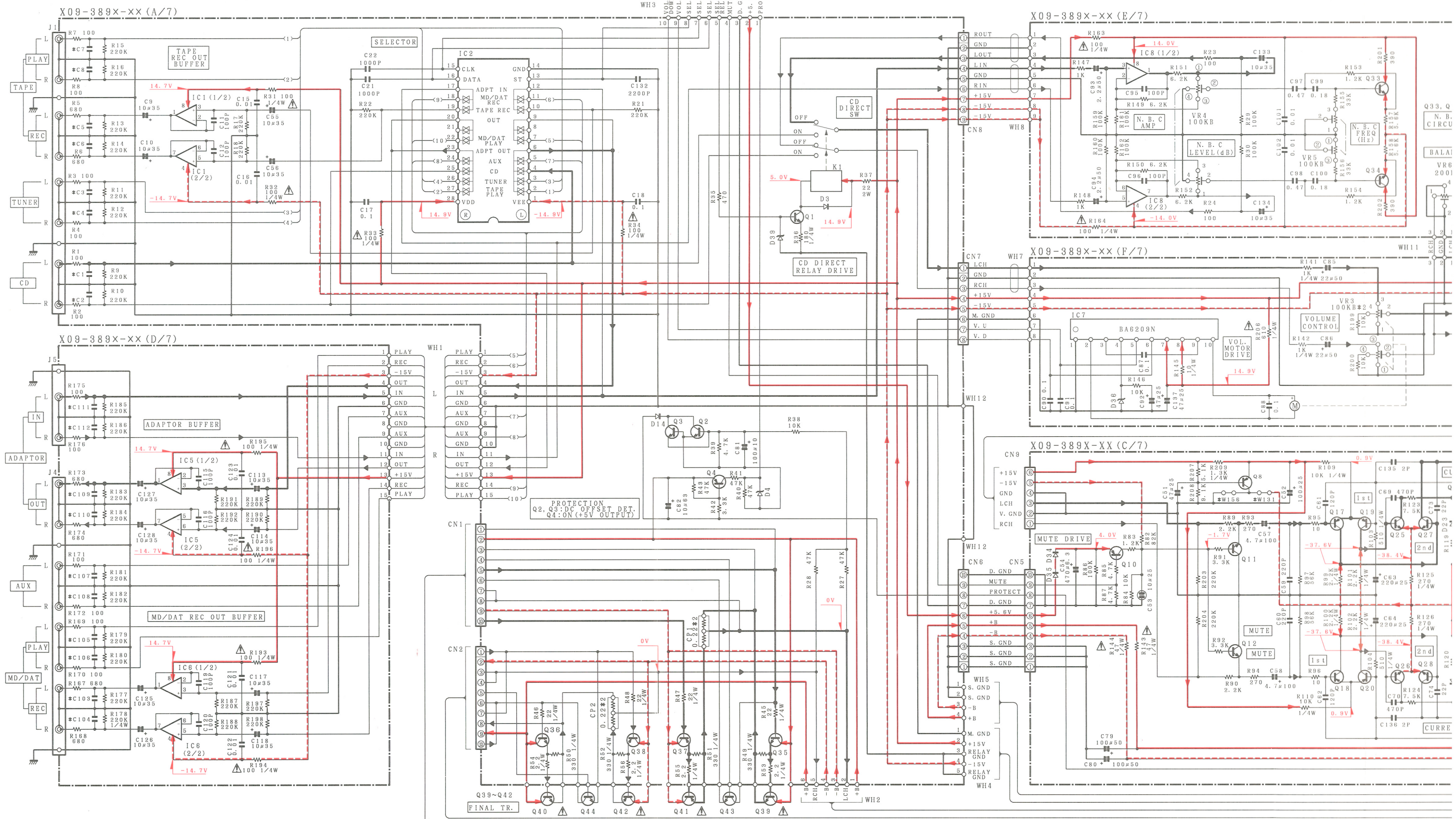
Refer to the schematic diagram for the values of resistors and capacitors.

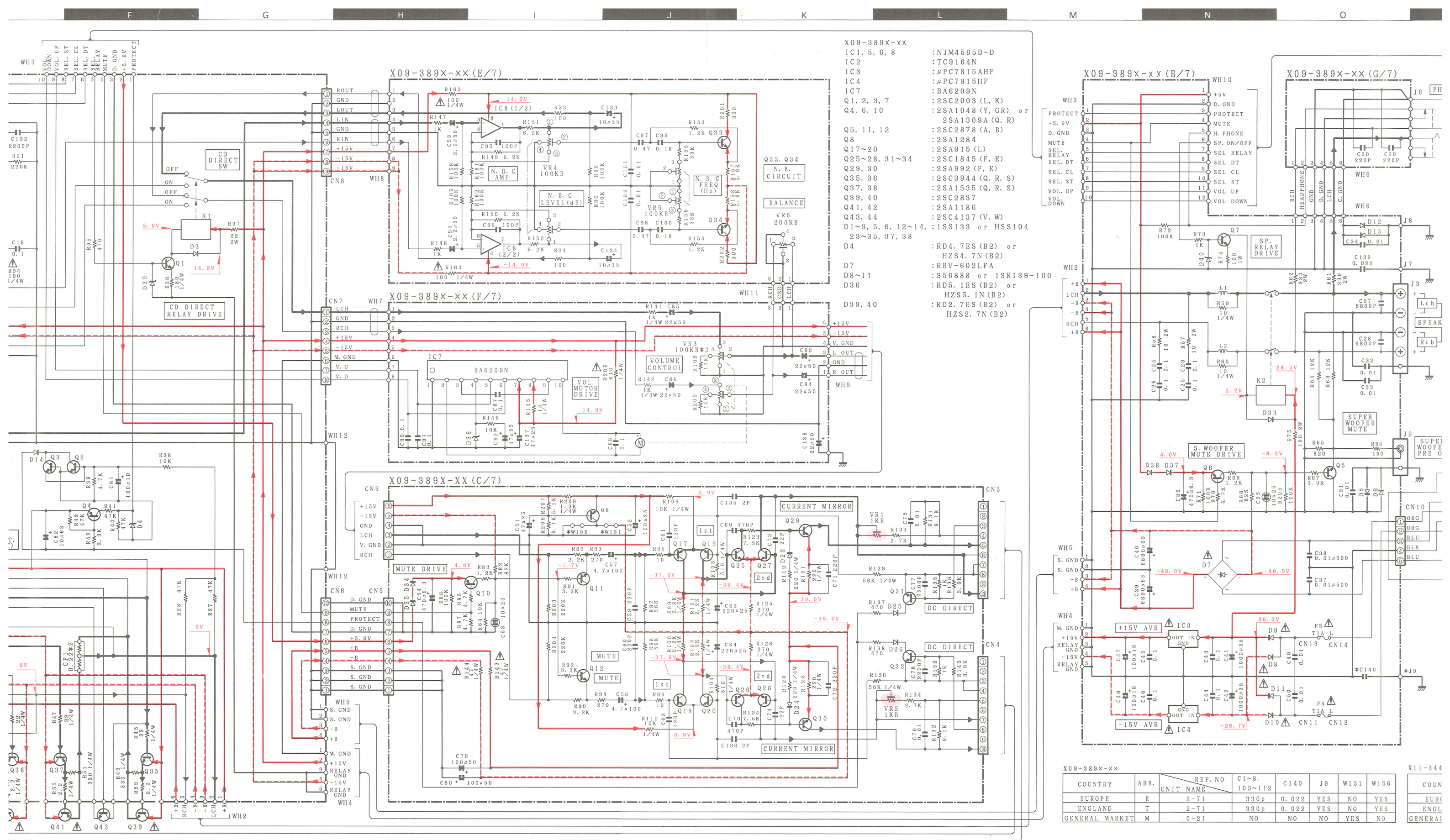
14

PC BOARD (Component side view)

AUDIO UNIT (X09-389X-XX)



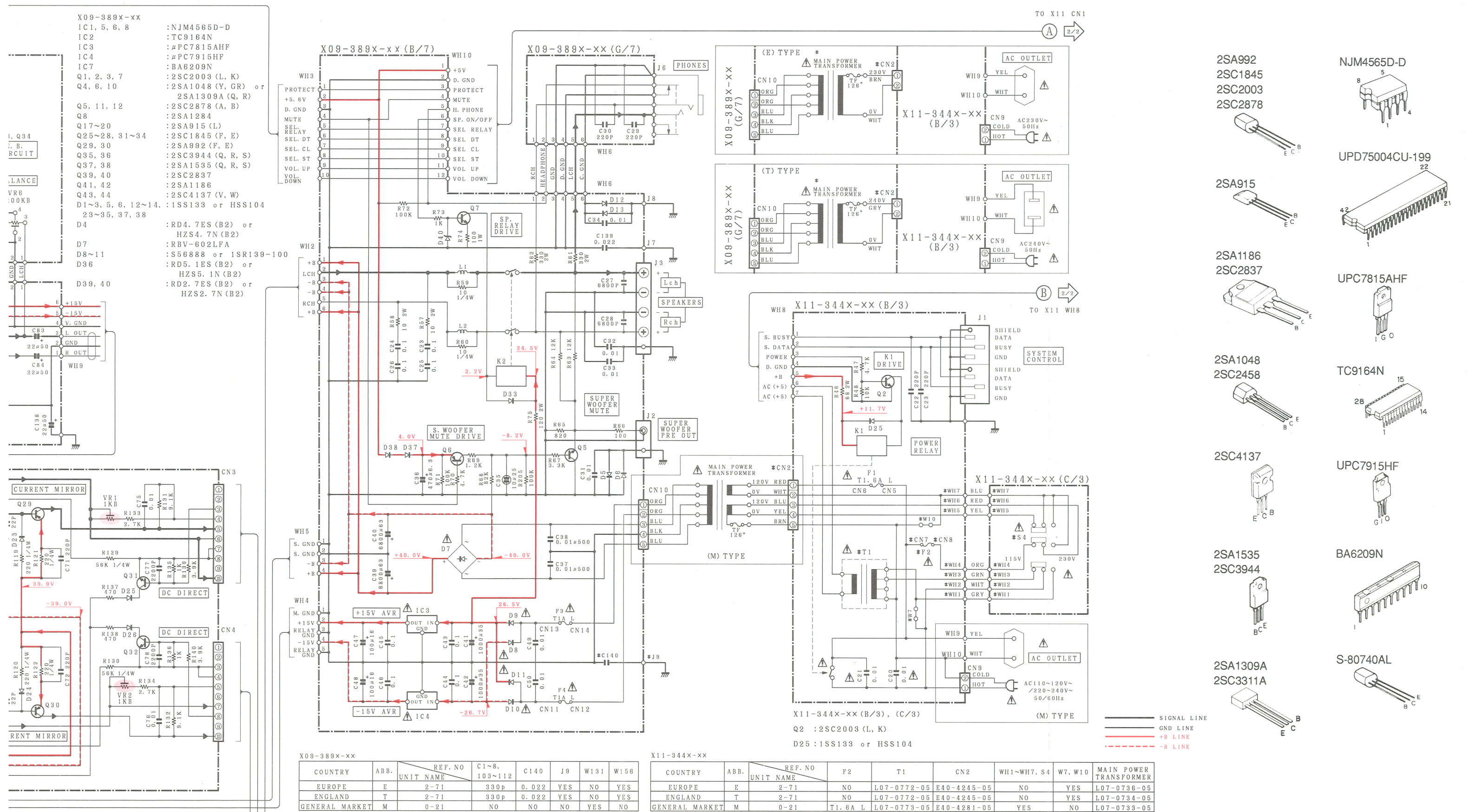




DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angezeigten DC-Werte sind mit einem hochohmigen Voltmeter ohne Eingangssignal gemessen. Die Werte können sich leicht aufgrund der inhärenten Variabilität der Geräte und der individuellen Messinstrumente unterscheiden.

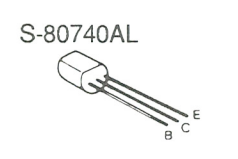
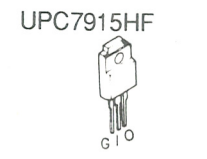
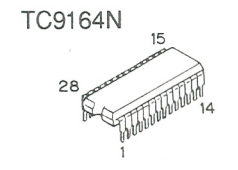
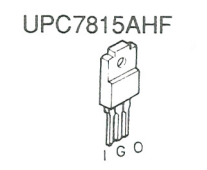
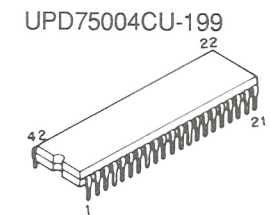
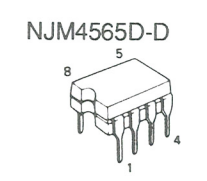
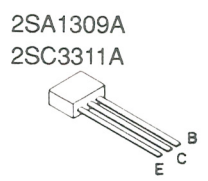
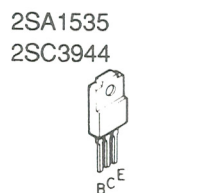
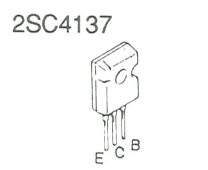
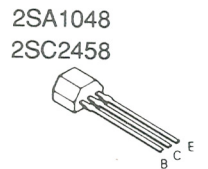
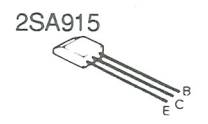


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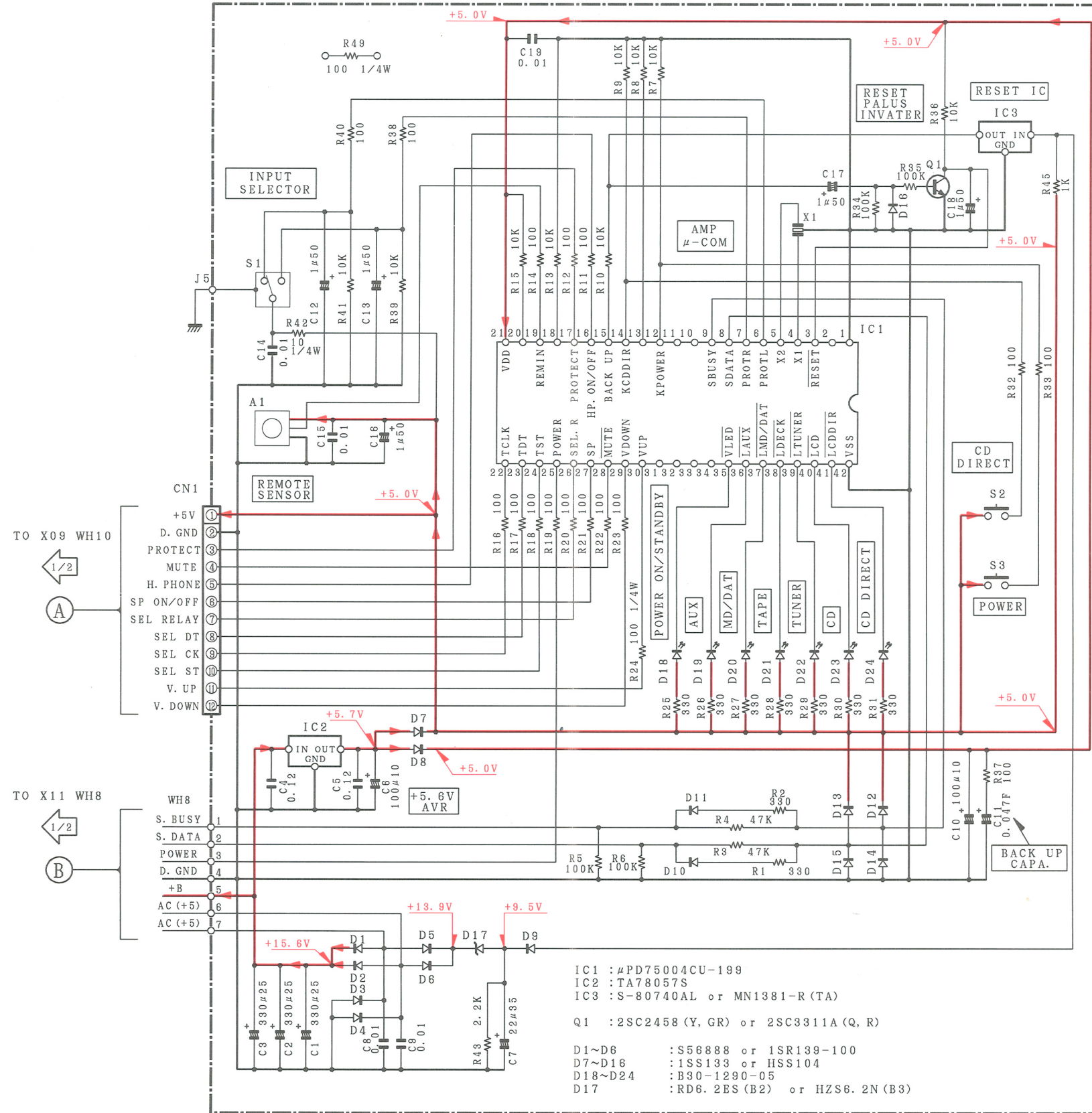
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



1
2
3
4
5
6
7

X11-344X-XX (A/3)



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

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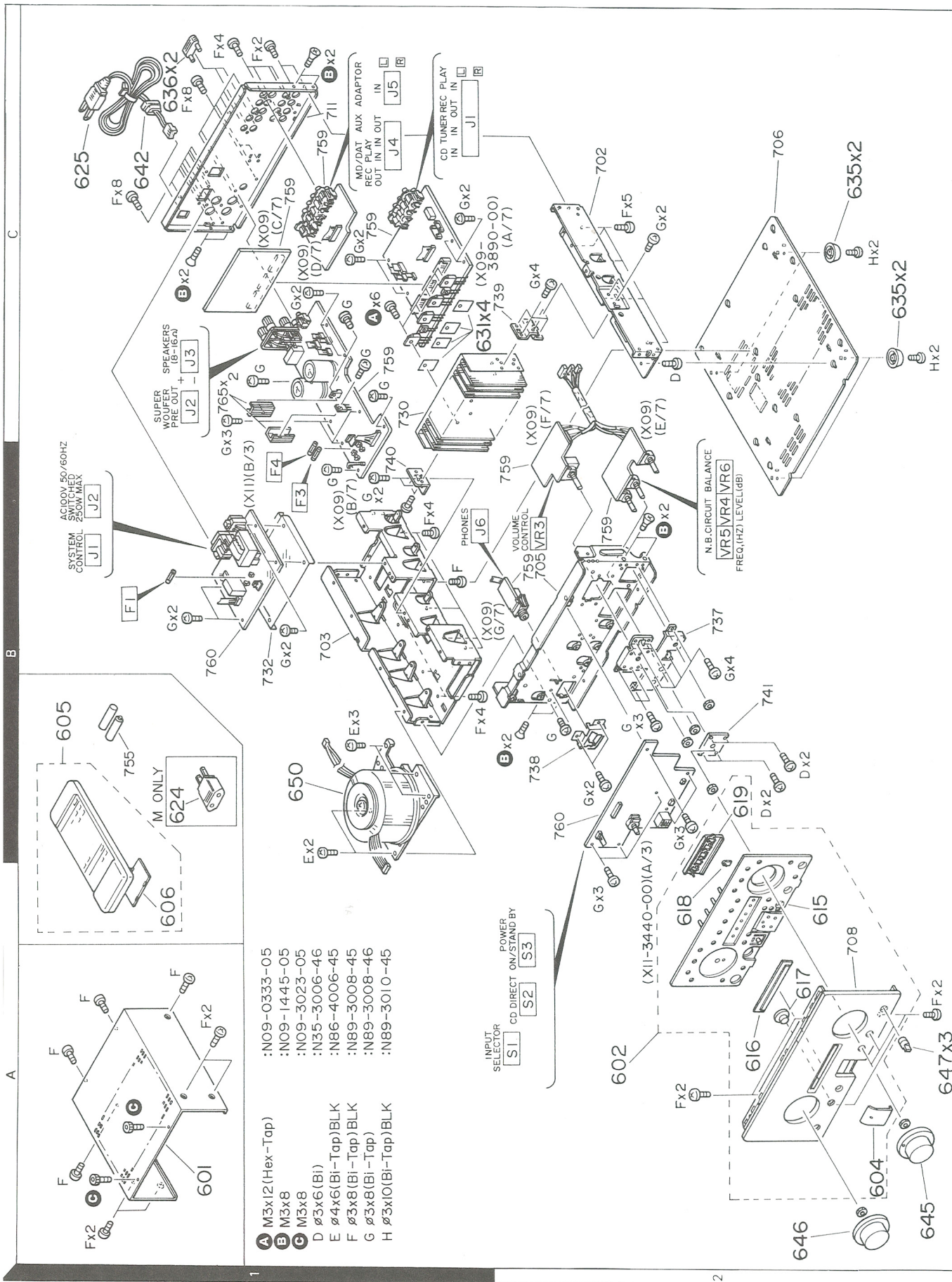
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

2/2

Y08-4900-21

A-1001
KENWOOD

EXPLODED VIEW



Parts with the exploded numbers larger than 700 are not supplied.

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

No.1

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部 品 名 / 規 格	Desti- nation 仕 向	Re- marks 備考
A-1001 (UNIT)					
601	1A	A01-3044-01	METALLIC CABINET		
602	2A	A60-0424-11	PANEL ASSY		
604	2A	A21-1847-04	DRESSING PANEL		
605	1B	A70-0939-05	REMOTE CONTROLLER ASSY		
606	1A	A09-0149-08	BATTERY COVER		
615	2A	B01-0510-01	PANEL ESCUTCHEON		
616	2A	B10-1992-04	FRONT GLASS		
617	2A	B11-0267-04	COLOR FILTER		
618	2A	B12-0149-04	INDICATOR		
619	2B	B12-0226-04	INDICATOR		
-	-	B46-0310-03	WARRANTY CARD	TE	
-	-	B52-0539-00	CONNECTING DIAGRAM		
-	-	B60-1220-00	INSTRUCTION MANUAL (ENGLISH)	IE	
-	-	B60-1221-00	INSTRUCTION MANUAL (F.G.D.I.)	M	
-	-	B60-1225-00	INSTRUCTION MANUAL (CHINESE)	M	
-	-	B60-1226-20	INSTRUCTION MANUAL (SPANISH)	ME	
624	1B	E03-0115-05	AC PLUG ADAPTER	M	
625	1C	E30-2592-15	AC POWER CORD	ME	
625	1C	E30-2721-05	AC POWER CORD	T	
J2		E03-0055-05	AC OUTLET	ME	
J2		E03-0085-05	AC OUTLET	T	
631	1C	F20-1297-05	INSULATING SHEET	T	
-	-	H50-0693-04	ITEM CARTON CASE	ME	
-	-	H50-0843-04	ITEM CARTON CASE	T	
-	-	H10-5528-02	POLYSTYRENE FOAMED FIXTURE		
-	-	H10-5529-02	POLYSTYRENE FOAMED FIXTURE		
-	-	H12-2170-04	PACKING FIXTURE	T	
-	-	H13-0039-04	CARTON BOARD		
-	-	H25-0330-04	PROTECTION BAG	ME	
-	-	H25-0432-24	PROTECTION BAG	ME	
-	-	H25-0644-04	PROTECTION BAG (0632 PRINTED)	T	
-	-	H25-0658-04	PROTECTION BAG (0330 PRINTED)	T	
635	2C	J02-0127-05	FOOT		
636	1C	J12-0091-05	PIN		
642	1C	J42-0078-05	POWER CORD BUSHING		
-	-	J61-0307-05	WIRE BAND		
645	2A	K29-5753-04	KNOB VOLUME		
646	2A	K29-5754-04	KNOB INPUT SELECTOR		
647	2A	K29-5818-14	KNOB N.B. CIRCUIT, BALANCE		
650	1B	L07-0733-05	POWER TRANSFORMER	M	
650	1B	L07-0734-05	POWER TRANSFORMER	T	
650	1B	L07-0736-05	POWER TRANSFORMER	E	
A	1C	N09-0333-05	TAPPING SCREW (3X12)		
B	2B, 1C	N09-1445-05	SET SCREW (M3X8)		
C	1A	N09-3023-05	MACHINE SCREW (3 X 8)		
D	2B, 2C	N35-3006-46	BINDING HEAD MACHINE SCREW		
E	1A, 1B	N86-4006-45	BINDING HEAD TAPTITE SCREW		
F	1A, 2A	N89-3008-45	BINDING HEAD TAPTITE SCREW		
G	1B, 2B	N89-3008-46	BINDING HEAD TAPTITE SCREW		
H	2C	N89-3010-45	BINDING HEAD TAPTITE SCREW		

L:Scandinavia

K:USA

P:Canada

Y:PX(Far East, Hawaii)

T:England

E:Europe

Y:AMFES(Europe)

X:Australia

M:Other Areas

△ indicates safety critical components.

AUDIO UNIT

Unit No.	Destination
X09-3890-21	M
X09-3892-71	T, E

CONTROL UNIT

Unit No.	Destination
X11-3440-21	M
X11-3442-71	T, E

PARTS LIST

A-1001

× New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

No.3

Ref. No. 参照番号	Address 位置	New Parts 新部品	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向備考
C129-131			CK45FF1H103Z	CERAMIC	
C132			CK45FBIH222K	0.010UF Z	
C133, 134			CE04KW1V100M	2200PF K	
C135, 136			CC45FSL1H020C	10UF 35WV	
C137			CE04KW1E470M	2.0PF C	
J1			E63-0098-05	47UF 25WV	
J2		*	E63-0101-05	PHONO JACK	CD, TUNER, TAPE
J3		*	E70-0034-05	PHONO JACK	S WOFFER, PRE OUT
J4		*	E63-0098-05	LOCK TERMINAL BOARD SPEAKERS	
J5		*	E63-0099-05	PHONO JACK MD/OAT AUX. ADP OUT	
J6		*	E11-0210-05	PHONO JACK ADAPTER IN	
F3, 4			F06-1022-05	PHONE JACK PHONES	
ON11-14			J13-0075-05	FUSE (SEMKO) (250V TIAL)	
L1, 2			L39-0085-05	FUSE CLIP	
G	1C		N89-3008-46	PHASE COMPENSATION COIL	
CP1, 2			R90-0187-05	BINDING HEAD TAPTITE SCREW	
R31-34			RD14NB2E101J	MULTI-COMP 0.22X2 K 5W	
R36			RD14NB2E181J	RD 100 J 1/4W	
R37			RS14KB3D220J	RD 180 J 1/4W	
R45-48			RD14NB2E220J	FL-PR00F RS 22 J 2W	
R49-52			RD14NB2E331J	RD 22 J 1/4W	
R53-56			RD14NB2E2R2J	RD 330 J 1/4W	
R57, 58			RS14KB3D100J	RD 2.2 J 1/4W	
R59, 60			RD14NB2E100J	FL-PR00F RS 10 J 2W	
R61, 62			RS14KB3D331J	RD 10 J 1/4W	
R74			RS14KB3A101J	FL-PR00F RS 330 J 2W	
R75			RS14KB3D121J	FL-PR00F RS 100 J 1W	
R77, 78			RD14NB2E470J	RD 120 J 2W	
R119-122			RD14NB2E221J	RD 47 J 1/4W	
R125, 126			RD14NB2E271J	RD 220 J 1/4W	
R143, 144			RD14NB2E470J	RD 270 J 1/4W	
R145			RD14NB2E100J	RD 47 J 1/4W	
R163, 164			RD14NB2E101J	RD 10 J 1/4W	
R193-196			RD14NB2E101J	RD 100 J 1/4W	
R206			RD14NB2E100J	RD 100 J 1/4W	
VR1, 2			R12-1084-05	TRIMMING POT.(1k) IDLE ADJ	
VR3		*	R29-5081-05	POTENTIOMETER(100k) VOLUME	
VR4		*	R06-5203-05	POTENTIOMETER(100k) N.B C FREQ	
VR5		*	R06-5204-05	POTENTIOMETER(100k) N.B C LEVE	
VR6		*	R01-5087-05	POTENTIOMETER(100k) BALANCE	
K1			SS1-2089-05	MAGNETIC RELAY	
K2			SS1-2078-05	MAGNETIC RELAY	
D1-3			HSS104	DIODE	
D1-3			SS133	DIODE	
D4			HZS4.7N(B2)	ZENER DIODE	
D4			RD4.7ES(B2)	ZENER DIODE	
D5, 6			HSS104	DIODE	
D5, 6			SS133	DIODE	
D7			RBV-602LFA	DIODE	
D8 -11			SS688B	DIODE	
D8 -11			1SR139-100	DIODE	



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× New Parts
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No.2

Ref. No. 参照番号	Address 位置	New Parts 新部品	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向備考
AUDIO UNIT (X09-389X-XX)					
C1, 2			CF92FV1H331K	330PF K	TE
C3-8			CF91-0751-05	330PF K	TE
C9, 10			CE04KW1V100M	10UF 35WV	
C11, 12			CC45FSL1H101J	100PF J	
C13, 14			CK45FF1H103Z	0.010UF Z	
C15, 16			CE04KW1E470M	47UF 25WV	
C17, 18			CF92FV1H104J	0.10UF J	
C19, 20			CE04KW1E470M	47UF 25WV	
C21, 22			CK45FBIH102K	1000PF K	
C23-26			CF92FV1H104J	0.10UF J	
C27, 28			CF92FV1H682J	6800PF J	
C29, 30			CC45FSL1H221J	220PF Z	
C31-34			CK45FF1H103Z	0.010UF Z	
C35			CE04HW1E100M	10UF 25WV	
C36			CE04KW0J471M	470UF 6.3WV	
C37, 38			CK45FE2H103P	0.010UF P	
C39, 40		*	C90-3523-05	ALUMINIUM ELECTROLYTIC C.	
C41, 42			CE04KW1V102M	1000UF 35WV	
C43-46			CF92FV1H104J	0.10UF J	
C47, 48			CE04KW1C101M	100UF 16WV	
C49, 50			CK45FE1H103Z	0.010UF Z	
C51, 52			CE04KW1C101M	100UF 16WV	
C53			CE04HW1E100M	10UF 25WV	
C54			CE04KW0J471M	470UF 6.3WV	
C55, 56			CE04KW1V100M	100UF 35WV	
C57, 58			CE04KW1V477M	4.7UF 35WV	
C59, 60			CC45FSL1H221J	220PF J	
C61, 62			CC45FSL1H121J	120PF J	
C63, 64			CE04KW1E221M	220UF 25WV	
C69, 70			CK45FBIH471K	470PF K	
C71, 72			CC45FSL1H221J	220PF J	
C73, 74			CC45FSL1H030C	3.0PF C	
C75, 76			CC45FF1H103Z	0.010UF Z	
C77, 78			CK45FBIH222K	2200PF K	
C79, 80			CE04KW1H101M	100UF 50WV	
C81			CE04KW1A101M	100UF 10WV	
C82			CE04KW1J100M	10UF 63WV	
C83-86			CE04KW1V100M	10UF 35WV	
C87, 88			CF92FV1H104J	0.10UF J	
C90, 91			CK45FF1H103Z	0.010UF Z	
C92			ELECTR0	47UF 25WV	
C93, 94			CE04KW1E470M	2.2UF 50WV	
C95, 96			CE04KW1H2R2M	100PF J	
C97, 98			CC45FSL1H101J	0.47UF J	
C99, 100			CF92FV1H474J	0.47UF J	
C101, 102			CF92FV1H184J	0.18UF J	
C103-112			CE04KW1E101M	100UF 25WV	
C113, 114			CF92FV1H331K	330PF K	TE
C115, 116			CE04KW1V100M	10UF 35WV	
C117, 118			CC45FSL1H101J	100PF J	
C119, 120			CE04KW1V100M	10UF 35WV	
C121-124			CC45FSL1H101J	100PF J	
C125-128			CE04KW1E470M	47UF 25WV	
			CE04KW1V100M	10UF 35WV	

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PARTS LIST

No.5

Ref. No. 参照番号	New Parts 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向備考
△ F1 △ F1 , 2		F05-1623-05 F05-1623-05	FUSE (SEMK0) FUSE (SEMK0) (250V T1.6A) (250V T1.6A)	TE M
CNS -8 CNS , 6		J13-0075-05 J13-0075-05	FUSE CLIP FUSE CLIP	M TE
T1 T1 X1	* *	L07-0772-05 L07-0773-05 L78-0267-05	POWER TRANSFORMER POWER TRANSFORMER RESONATOR (4.194MHZ)	TE TE M
R42 R46		RD14NB2E100J RS14KB3D680J	RD 10 J 1/4W FL-PR00F RS 68 J 2W	
△ K1 S2 , 3 △ S4		S76-0002-05 S40-1064-05 S31-3010-05	MAGNETIC RELAY PUSH SWITCH SLIDE SWITCH VOLTAGE SELECTOR	M
S1	*	T99-0540-05	ROTARY ENCODER INPUT SELECTOR	
D1 D1 -6 D7 -16 D7 -16 D17		S5688B 1SR139-100 HSS104 1SS133 HZS6.2N(B2)	DIODE DIODE DIODE DIODE ZENER DIODE	
D17 D25 D25 IC1 IC2		R06-2ES(B2) HSS1104 1SS133 UF07S004CU-199 TA780575	ZENER DIODE DIODE DIODE IC(MICROPROCESSOR) IC(VOLTAGE REGULATOR/+5.75V)	
IC3 IC3 Q1 Q1 Q2 A1		MM1381-R(TA) S-80740AL 2SC2458(Y,GR) 2SC3311A(Q,R) 2SC2003(L,K) W02-1174-05	IC(VOLTAGE DETECT) IC(VOLTAGE DETECTOR) TRANSISTOR TRANSISTOR TRANSISTOR ELECTRIC CIRCUIT MODULE	

No.4

Ref. No. 参照番号	New Parts 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向備考
D12 -14 D12 -14 D23 -35 D23 -35 D36		HSS104 1SS133 HSS104 1SS133 HZS5.1N(B2)	DIODE DIODE DIODE DIODE ZENER DIODE	
D36 D37 , 38 D37 , 38 D39 , 40 D39 , 40		RD5.1ES(B2) HSS104 1SS133 HZS2.7N(B2) RD2.7ES(B2)	ZENER DIODE DIODE DIODE ZENER DIODE ZENER DIODE	
IC1 IC2 IC3 IC4 IC5 , 6		NJM4565D-D TC9164N UPC7815AHF UPC7915HF NJM4565D-D	IC(OP AMP X2) IC(16CH BILATERAL SELECTOR SW) IC(VOLTAGE REGULATOR/ +15V) IC(VOLTAGE REGULATOR/ -15V) IC(OP AMP X2)	
IC7 IC8 Q1 -3 Q4 Q4 Q5 Q6 Q6 Q7 Q10		BA6209N NJM4565D-D 2SC2003(L,K) 2SA1048(Y,GR) 2SA1309A(Q,R) 2SC2878(B) 2SA1048(Y,GR) 2SA1309A(Q,R) 2SC2003(L,K) 2SA1048(Y,GR)	IC(MOTOR DRIVER) IC(OP AMP X2) TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
Q10 Q11 , 12 Q17 -20 Q25 -28 Q29 , 30		2SA1309A(Q,R) 2SC2878(B) 2SA915(L) 2SC1845(F,E) 2SA992(F,E)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
Q31 -34 Q35 , 36 Q37 , 38 Q39 , 40 Q41 , 42 Q43 , 44		2SC1845(F,E) 2SC3944(Q,R,S) 2SA1535(Q,R,S) 2SC2837 2SA1186	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	
CONTROL UNIT (X11-344X-XX)				
D18 -24		B30-1290-05	LED(LN2IRCALSIX(U)-(TA4))	
C1 -3 C4 , 5 C6 C7 C8 , 9		CE04KW1B331M CF92FV1H124J C90-3222-05 C90-3245-05 CF92FV1H103J	ELECTR0 330UF 25WV MF 0.12UF J ELECTR0 100UF 10WV ELECTR0 22UF 35WV MF 0.010UF J	
C10 C11 C12 , 13 C14 , 15 C16		C90-3222-05 C90-1827-05 C90-3253-05 CK45FF1H103Z C90-3253-05	ELECTR0 100UF 10WV BACKUP 0.047F S.5WV ELECTR0 1UF 50WV CERAMIC 0.010UF Z ELECTR0 1UF 50WV	
C17 , 18 C19 C20 , 21 C22 , 23		CE04KW1H010M CK45FF1H103Z C91-1439-05 CC45FSL1H221J	ELECTR0 1.0UF 50WV CERAMIC 0.010UF Z FILM 0.01UF 250VAC CERAMIC 220PF J	
J1		E08-0312-05	RECTANGULAR RECEPTACLE SYNCHRO	

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A-1001

SPECIFICATIONS

(For UK and Europe)

Rated power output

From 20 Hz to 20 kHz, 0.09 % T.H.D.
at 8 Ω 40 W + 40 W

(DIN) 1 kHz at 8 Ω 45 W + 45 W
(IEC / NF) From 63 Hz to 12,500 Hz, 0.7 % T.H.D.
at 8 Ω 45 W + 45 W

Total harmonic distortion
..... 0.09 % (20 Hz ~ 20 kHz, 20 W, 8 Ω)
..... 0.009 % (1 kHz, 20 W, 8 Ω)

Frequency response
LINE (CD) 10 Hz ~ 80 kHz, +0 dB, -3 dB

Signal to noise ratio
(IHF'66)

LINE (CD) 100 dB
CD DIRECT 103 dB

(DIN)
LINE (CD) 65 dB (50 mW output)
CD DIRECT 65 dB (50 mW output)

Input sensitivity / impedance
LINE (CD) 250 mV / 47 k Ω
ADAPTOR IN 250 mV / 47 k Ω

N.B. CIRCUIT
Variable Frequency 40 Hz ~ 90 Hz
Control range ± 10 dB

Output level / impedance
TAPE REC 200 mV / 270 Ω
ADAPTOR OUT 200 mV / 270 Ω
SUPER WOOFER preout 1.8 V / 600 Ω

GENERAL

Power consumption 90 W

AC outlet
SWITCHED 1 (250 W max.)

Dimensions W : 270 mm (10 - 5/8")
H : 136 mm (5 - 3/8")
D : 346 mm (13 - 5/8")

Weight (Net) 7.6 kg (16.7lb)

PPHU FOXEL *Jolanta Pałupska*

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Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

(For Other countries)

Rated power output

From 20 Hz to 20 kHz, 0.09 % T.H.D.
at 8 Ω 40 W + 40W

(IEC / NF) From 63 Hz to 12,500 Hz, 0.7 % T.H.D.
at 8 Ω 45 W + 45 W

Total harmonic distortion
..... 0.09 % (20 Hz ~ 20 kHz, 20 W, 8 Ω)
..... 0.009 % (1 kHz, 20 W, 8 Ω)

Frequency response
LINE (CD) 10 Hz ~ 80 kHz, +0 dB, -3 dB

Signal to noise ratio
(IHF'66)

LINE (CD) 100 dB
CD DIRECT 103 dB

Input sensitivity / impedance
LINE (CD) 250 mV / 47 k Ω
ADAPTOR IN 250 mV / 47 k Ω

N.B. CIRCUIT
Variable Frequency 40 Hz ~ 90 Hz
Control range ± 10 dB

Output level / impedance
TAPE REC 200 mV / 270 Ω
ADAPTOR OUT 200 mV / 270 Ω
SUPER WOOFER preout 1.8 V / 600 Ω

GENERAL

Power consumption 90 W

AC outlet
SWITCHED 1 (250 W max.)

Dimensions W : 270 mm (10 - 5/8")
H : 136 mm (5 - 3/8")
D : 346 mm (13 - 5/8")

Weight (Net) 7.6 kg (16.7lb)

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